

GEORGIA SOIL AND WATER CONSERVATION COMMISSION



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Bid Announcement #2006-01

Background:

The Georgia Soil and Water Conservation Commission is implementing, conducting, and maintaining an Agricultural Water Use Measurement Program that efficiently utilizes public funds, integrates cooperative arrangements with the private sector and partnerships with other State agencies, and meets the agricultural water-use data needs of the State for effectively managing and utilizing water resources; while, at the same time, is sensitive to and respects the distinctive implications of carrying out actions under the auspices of the State that involve entering onto private lands and installing, maintaining, and monitoring State owned equipment on private irrigation systems.

The Program is under the auspices of the Georgia Soil and Water Conservation Commission and will be carried out through experts (some in-house and some contracted), local specialists, and a small core of quality control staff. The funding for the Program is being provided yearly by the OneGA Authority.

The Commission is using the Department of Administrative Services and its proven contracting bid methods to solicit and determine successful bidders for the purchasing of meters throughout the duration of the program to implement HB-579. The Commission has worked with DOAS to develop a procedure to prequalify a list of approved vendors to install agricultural water meters.

Most irrigation occurs in a six-month period between April 1 and October 1. For total water-use during that period, most meters need only to be read at the completion of the growing season. However, there is interest in water-use during critical periods of low stream flow, such as in August and September. Reading of all meters only after the growing season would miss those critical low-flow periods. **Thus, a 10 percent sample of meters will be read on a more frequent basis. Once meters are installed throughout the State, such sampling can be done in a statistical distribution statewide. Currently 17 meter sites have been installed and equipped with telemetry in the Ichawaynochaway Basin in Southwest Georgia and require reading every 12 hours.**

*With the Right to Own Goes the Duty to Conserve
With the Privilege of Use Goes the Obligation of Stewardship*

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The Georgia Soil and Water Conservation Commission, a state agency, is seeking qualified contractors to bid on the following project:

Under this bid announcement, the Conservation Commission is seeking a qualified bidder to monitor 17 previously installed agricultural water meters equipped with telemetric systems in the Ichawaynochaway Basin of the Flint River in Southwest Georgia. A detailed listing of the meters that must be monitored is as follows:

TELEMETRY SITES FOR ICHAWAYNOCHAWAY CREEK BASIN

Permit #	County	Owner / Operator	GPS Location	Source
A89-004-0036	Baker	W. Anthony Smith	N:3471025.20 E:725163.12	surface
A00-004-0421	Baker	Ji Ja Farms	N:3471622.16 E:733937.66	ground
A89-004-0024	Baker	Caney Plantation	N:3478221.74 E:728918.09	surface
A00-004-0467	Baker	George Tennille	N:3471363.82 E:730773.36	ground
A00-004-0214	Baker	Goose Pond-JOSULI	N:3455432.48 E:734871.11	ground
A00-019-0285	Calhoun	Alvin A. Sudderth	N:3498921.38 E:741493.86	surface
A00-019-0261	Calhoun	Andrew Collins	N:3496217.80 E:708263.65	surface
A89-019-0027	Calhoun	Phyllis Smith	N:3481881.34 E:715860.65	surface
A91-019-0193	Calhoun	Deer Run Investment	N:3481269.19 E:734234.05	ground
A90-100-0273	Miller	Goose Pond-JOSULI	N:3459180.56 E:732808.56	ground
A89-120-0116	Randolph	Billy Sauls	N:3511859.52 E:731187.38	surface
A88-120-0015	Randolph	Jonathan Peavy	N:3520997.67 E:721176.46	surface
A88-120-0035	Randolph	J. M. Thompson	N:3519690.93 E:722760.91	surface
A91-135-0166	Terrell	Knollwood Plantation	N:3505115.23 E:738220.16	ground
A90-135-0096	Terrell	Pierre Brueder	N:3513524.14 E:740107.26	ground
A88-135-0003	Terrell	Mary Perry	N:3533338.06 E:727855.72	ground
A89-135-0062	Terrell	Leon Copeland	N:3522043.12 E:744990.20	ground

The following equipment is currently on-site at each of the seventeen sites:

	<u>ITEM</u>
1	Master No. 3 padlock
2	SX-20/12V/MULTI (Solar Panel)
3	MSX-18/30 (pole mount)
4	ES17-12 battery, 12v 18AH
5	TR3001 Tipping Bucket Rain Gauge
6	Industrial Electrical Enclosure
7	Interface Cable
8	Antenna Cable
9	132-512 MHz, 200 Watts, Unity Gain Antenna
10	ST2500 Orbcomm unit
11	Wiring Bus and Controls

There are 9 groundwater sites (GW) and 8 surface water (SW) sites as detailed below:

	<u>ITEM</u>	<u>QUANTITY</u>
1	EA630 - 6" Meter and Transmitter (GW) on a McCrometer Propeller meter – Model # MO300	3
2	EA830 - 8" Meter and Transmitter(GW) on a McCrometer Propeller meter – Model # MO300	6
3	+GF+Signet 3000 Ultrasonic Monitoring System (SW)	8
4	+GF+Signet 4-3500.320-X (SW)	8

Tasks required of successful bidder for the

Period 10/1/05 – 06/30/06 include:

1. Turnkey telemetry and data connection from 17 meters via the internet. Includes satellite setup, from point of local termination. Includes satellite communication equipment, tamper proof and weather proof enclosures, wiring, connections, antenna, labor and any other material needed to complete installation. Includes nine months satellite service. The Contractor must maintain the existing turnkey telemetric solution to monitor and record irrigation water usage and rainfall. Real-time data must be gathered locally, transmitted, stored in a database and displayed securely on the internet for viewing in graph or table format. Two reporting websites are needed, one showing basin and site summaries and the second showing all data used to support summary pages. Ground truthing will be required within 2 days when telemetry is not functioning correctly.
2. Contractor must maintain and monitor the existing self-emptying rainfall gauge with telemetry capabilities for each of the 17 sites. Each site shall be equipped and maintained with a telemetric sending unit connected to both the rainfall gauge and water flow meter.
3. The Contractor is responsible for securely hosting all data with 24 hour, 7 day a week accessibility to the Commission. The water usage and rainfall data must be collected in 12 hour intervals with download times of 7:00 am and 7:00 pm. Data collection must be secure. Data provided must be flexible so that specific date and time range information can be viewed either graphical or in a table format. Water use data must be reported in hundredths of acre inches and rainfall data must be reported in tenths of inches.
4. Provide on-going service and field technical support for entire configuration for nine months. Configure and maintain network connection and data collection via secure internet. If problems occur with either the meter or telemetry equipment, the Contractor must respond within 48 hours and make the necessary repairs.
5. Ninety day warranty for entire configuration (meter and telemetry equipment) from date of contract execution.
6. Provide three (3) months of rolling data for each monitored meter. Data older than twelve (12) months must be archived using secure electronic media and stored locally. The State of Georgia owns the rights to all data. Data cannot be released without the expressed written consent of the Executive Director of the Commission.

Questions regarding specifications should be directed to: Dave Eigenberg at (229)995-6001.

Bids are due by **5:00PM** on **August 12, 2005** at the address listed on the bid sheet.

Informal Bid Sheet For Telemetry Data

Date: _____

Bidder Name: _____

Address: _____

Telephone # : _____

Fax # : _____

Email address: _____

Business Tax ID # : _____

Current Insurance Coverage Level: _____

(Please provide proof of insurability with a minimum of \$50,000 Commercial General Liability coverage & \$50,000 Business Automobile Liability coverage.)

Bid includes Nine (9) Months satellite service (10/1/05 – 06/30/06) for 17 sites, field technical support for 17 sites, repair and replacement of defective components of 17 systems and meets all requirements of Bid Announcement #2006-01.

Bid Amount:\$ _____

Signature of Bidder

Printed Name of Bidder

**Bids should be returned by 5:00PM on August 12, 2005 to:
GSWCC**

Attention: Karen Parson

P.O. Box 8024

Athens, GA, 30606

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